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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,082	11/03/2003	Joseph S. Adams	14200	3718
759	90 03/09/2005		EXAMINER	
LISA M. SOLTIS			WEEKS, GLORIA R	
ILLINOIS TOO 3600 WEST LA	L WORKS INC. KE AVENUE		ART UNIT	PAPER NUMBER
GLENVIEW, I			3721	
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DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)	
_ i	10/700,082	ADAMS ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Gloria R Weeks	3721	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thiseriod will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 2a)⊠ This action is FINAL . 2b)□ 3)□ Since this application is in condition for all closed in accordance with the practice uncondition.	This action is non-final. owance except for formal mat	•	
Disposition of Claims			
4) ☐ Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 1-27 is/are allowed. 6) ☐ Claim(s) 28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and the application are subject to restriction and the application are subject to restriction and the application are subject to restriction are subject to restriction.	hdrawn from consideration.	·	
Application Papers			
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	opplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	∆ \ □ 1-4	Summery (PTO 412)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

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Response to Amendment

1. This action is in response to Applicants' amendment received on December 13, 2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 28 is rejected under 35 U.S.C. 102(b) as being anticipated by Büchel (USPN 6,425,354).

In reference to claim 28, Büchel discloses a gas combustion-powered apparatus, comprising: a combustion chamber (2), the combustion chamber (1, 2) including a first wall (14) and a second wall (18) moveable with respect to the first wall (14) between a first, collapsed position (figure 5) and a second, expanded position (figure 4) defining a volume between the first (14) and second (18) walls; an ignition source (53) in operable relationship to the combustion chamber (1, 2) for causing an ignition of a combustible gas within the volume; and a fueling apparatus (41, 42) constructed and arranged for injecting a pressurized fuel into the volume at a pressure sufficient to create turbulence in the volume without mechanical assistance or movement of the first and second walls.

Allowable Subject Matter

4. Claims 1-27 are allowed.

Response to Arguments

5. Applicant's arguments filed December 13, 2004 have been fully considered but they are not persuasive.

Applicant has argued that Büchel et al. fails to disclose a fueling apparatus that injects a pressurized fuel into a volume at a sufficient pressure to create turbulence in the volume without movement of the walls defining the volume, as claimed by the Applicant. Although Examiner recognizes that the fueling apparatus of Applicant's invention is angled to direct the fuel at a central area (92) of the rear wall or surface (40), thus improving the mixing of the fuel with the air in the combustion volume, this configuration is not encompassed in the claim language of Applicant's invention. Applicant appears to have relied upon the functional language regarding the force at which the fuel is injected into the combustion volume, rather than structural language. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. Büchel et al. is deemed to be capable of injecting a pressurized fuel in to the combustion volume sufficient to create turbulence in the volume without mechanical assistance or movement of the first and second walls.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gloria R Weeks whose telephone number is (703) 605-4211. The

examiner can normally be reached on 7:30 am - 6:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Scott A Smith can be reached on (703) 308-2190. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gloria R Weeks

Examiner

Art Unit 3721

March 4, 2005

Alnaldi I. Rada Supervisory Patent Examiner

Group 3700